Using Operators and Decision Constructs - 0

What will be the result of compiling and executing Test class?

```
import java.time.LocalTime;

public class Test {
     public static void main(String[] args) {
         LocalTime time = LocalTime.of(16, 40);
         String amPm = time.getHour() >= 12 ? (time.getHour() == 12)
        ? "PM" : "AM";
         System.out.println(amPm);
     }
}
```

A - Compilation error

B - An exception is thrown at runtime

C - AM

D - PM

Using Operators and Decision Constructs - 1

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         String fruit = "mango";
         switch (fruit) {
             default:
                 System.out.println("ANY FRUIT WILL DO");
             case "Apple":
                 System.out.println("APPLE");
             case "Mango":
                 System.out.println("MANGO");
             case "Banana":
                 System.out.println("BANANA");
                 break;
         }
     }
}
```

A -

```
MANGO
BANANA
```

B -

```
ANY FRUIT WILL DO
APPLE
MANGO
BANANA
```

C - ANY FRUIT WILL DO

D - MANGO

Using Operators and Decision Constructs - 2

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         byte var = 100;
         switch(var) {
             case 100:
                 System.out.println("var is 100");
                 break;
             case 200:
                 System.out.println("var is 200");
                 break;
             default:
                 System.out.println("In default");
         }
     }
}
```

A - var is 100

B - In default

C - var is 200

D - Compilation error

Using Operators and Decision Constructs - 3

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         System.out.println("Output is: " + 10 != 5);
     }
}
```

A - Compilation error

B - Output is: 10 !=5

C - Output is: true

D - Output is: false

Using Operators and Decision Constructs - 4

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String [] args) {
         int a = 100;
         System.out.println(-a++);
     }
}
```

A - -101

B - Compilation error

C - 99

D - -100

E - -99

Using Operators and Decision Constructs - 5

What will be the result of compiling and executing the Test class?

```
public class Test {
     public static void main(String[] args) {
         int grade = 60;
         if(grade = 60)
             System.out.println("You passed...");
         else
             System.out.println("You failed...");
     }
}
```

A - You passed...

B - You failed...

C - Compilation error

D - Produces no output

Using Operators and Decision Constructs - 6

For the class Test, which options, if used to replace /*INSERT*/, will print "Lucky no. 7" on to the console? Select 3 options.

```
public class Test {
     public static void main(String[] args) {
         /*INSERT*/
         switch(var) {
             case 7:
                 System.out.println("Lucky no. 7");
                 break;
             default:
                 System.out.println("DEFAULT");
         }
     }
}
```

A - char var = '7';

B - Character var = '7';

C - char var = 7;

D - Character var = 7;

E - Integer var = 7;

Using Operators and Decision Constructs - 7

What will be the result of compiling and executing the Test class?

```
public class Test {
     public static void main(String[] args) {
         int grade = 75;
         if(grade > 60)
             System.out.println("Congratulations");
             System.out.println("You passed");
         else
             System.out.println("You failed");
     }
}
```

A - Congratulations You passed

B - Compilation error

C - Congratulations

D - You failed

Using Operators and Decision Constructs - 8

For the class Test, which options, if used to replace /*INSERT*/, will print TEN on to the console? Select 4 options.

```
public class Test {
     public static void main(String[] args) {
         /*INSERT*/
         switch(var) {
             case 10:
                 System.out.println("TEN");
                 break;
             default:
                 System.out.println("DEFAULT");
         }
     }
}
```

A - double var = 10;

B - char var = 10;

C - Short var = 10;

D - Integer var = 10;

E - long var = 10;

F - byte var = 10;

Using Operators and Decision Constructs - 9

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String [] args) {
         int a = 2;
         boolean res = false;
         res = a++ == 2 || --a == 2 && --a == 2;
         System.out.println(a);
     }
}
```

A - 1

B - 2

C - 3

D - Compilation error

Using Operators and Decision Constructs - 10

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         String fruit = "mango";
         switch (fruit) {
             case "Apple":
                 System.out.println("APPLE");
             case "Mango":
                 System.out.println("MANGO");
             case "Banana":
                 System.out.println("BANANA");
                 break;
             default:
                 System.out.println("ANY FRUIT WILL DO");
         }
     }
}
```

A -

```
MANGO
BANANA
ANY FRUIT WILL DO
```

B -

```
MANGO
ANY FRUIT WILL DO
```

C - ANY FRUIT WILL DO

D - MANGO

Using Operators and Decision Constructs - 11

Consider below code:

```
//Test.java
public class Test {
     private static boolean flag = !true;

     public static void main(String [] args) {
         System.out.println(!flag ? args[0] : args[1]);
     }
}
```

What will be the result of compiling and executing Test class using below commands?

javac Test.java java Test AM PM

A - Compilation error

B - ExceptionininitializerError is thrown while loading the Test class

C - PM

D - AM

Using Operators and Decision Constructs - 12

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         System.out.println("Output is: " + (10 != 5));
     }
}
```

A - Output is: true

B - Output is: false

C - Output is: (10 != 5)

D - Compilation error

Using Operators and Decision Constructs - 13

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         int score = 60;
         switch (score) {
             default:
                 System.out.println("Not a valid score");
             case score < 70:
                 System.out.println("Failed");
                 break;
             case score >= 70:
                 System.out.println("Passed");
                 break;
         }
     }
}
```

A - Compilation error

B - Not a valid score Failed

C - Passed

D - Failed

Using Operators and Decision Constructs - 14

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         int a = 20;
         int var = --a * a++ + a-- - --a;
         System.out.println("a = " + a);
         System.out.println("var = " + var);
     }
}
```

A - a = 18 var = 363

B - a = 25 var = 363

C - a = 363 var = 363

D - Compilation error

Using Operators and Decision Constructs - 15

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         System.out.println("Hello" + 1 + 2 + 3 + 4);
     }
}
```

A - Hello10

B - Hello19

C - Hello1234

D - Hello 10

Using Operators and Decision Constructs - 16

What will be the output of compiling and executing the Test class?

```
public class Test {
     public static void main(String[] args) {
         int x = 2;
         switch (x) {
             default:
                 System.out.println("Still no idea what x is");
             case 1:
                 System.out.println("x is equal to 1");
                 break;
             case 2:
                 System.out.println("x is equal to 2");
                 break;
             case 3:
                 System.out.println("x is equal to 3");
                 break;
         }
     }
}
```

A - Produces no output

B - x is equal to 2

C - Still no idea what x is x is equal to 1

D - Compilation error

Using Operators and Decision Constructs - 17

What will be the result of compiling and executing Bonus class?

```
public class Bonus {
     public static void main(String[] args) {
         int $ = 80000;
         String msg = ($ >= 50000) ? "Good bonus" : "Average bonus";
         System.out.println(msg);
     }
}
```

A - Good bonus

B - Compilation error

C - Average bonus

Using Operators and Decision Constructs - 18

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         int i = 5;
         if(i++ < 6) {
             System.out.println(i++);
         }
     }
}
```

A - Program executes successfully but nothing is printed on to the console

B - 5

C - 7

D - 6

Using Operators and Decision Constructs - 19

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         String fruit = new String(new char[] {'M', 'a', 'n', 'g',
         'o'});
         switch (fruit) {
             default:
                 System.out.println("ANY FRUIT WILL DO");
             case "Apple":
                 System.out.println("APPLE");
             case "Mango":
                 System.out.println("MANGO");
             case "Banana":
                 System.out.println("BANANA");
                 break;
         }
     }
}
```

A - MANGO

B -

```
ANY FRUIT WILL DO
APPLE
MANGO
BANANA
```

C -

```
MANGO
BANANA
```

D - ANY FRUIT WILL DO

Using Operators and Decision Constructs - 20

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String [] args) {
         int a = 3;
         System.out.println(a++ == 3 || --a == 3 && --a == 3);
     }
}
```

A - Compilation error

B - false

C - true

Using Operators and Decision Constructs - 21

For the class Test, which option, if used to replace /*INSERT*/, will print “Lucky no. 7” on to the console?

```
public class Test {
     public static void main(String[] args) {
         /*INSERT*/
         switch(var) {
             case '7':
                 System.out.println("Lucky no. 7");
                 break;
             default:
                 System.out.println("DEFAULT");
         }
     }
}
```

A - int var = ‘7’;

B - None of the other options

C - int var = 7;

D - Integer var = 7;

Using Operators and Decision Constructs - 22

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String [] args) {
         int a = 3;
         m(++a, a++);
         System.out.println(a);
     }

     private static void m(int i, int j) {
         i++;
         j--;
     }
}
```

A - 4

B - 6

C - 3

D - 5

Using Operators and Decision Constructs - 23

What will be the output of compiling and executing the Test class?

```
public class Test {
     public static void main(String[] args) {
         int a = 5;
         int x = 10;
         switch(x) {
             case 10:
                 a *= 2;
             case 20:
                 a *= 3;
             case 30:
                 a *= 4;
         }
         System.out.println(a);
     }
}
```

A - 5

B - 120

C - 10

D - 30

Using Operators and Decision Constructs - 24

What will be the result of compiling and executing DivModTest class?

```
public class DivModTest {
     public static void main(String[] args) {
         System.out.println( 23 / 2.0 );
         System.out.println( 23 % 2.0 );
     }
}
```

A - 11.5 0.0

B - 11.0 1.0

C - 11.5 1.0

D - 11 1

Using Operators and Decision Constructs - 25

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         int a = 7;
         boolean res = a++ == 7 && ++a == 9 || a++ == 9;
         System.out.println("a = " + a);
         System.out.println("res = " + res);
     }
}
```

A - a = 9 res = true

B - Compilation error

C - a = 10 res = true

D - a = 10 res = false

Using Operators and Decision Constructs - 26

What will be the result of compiling and executing Test class?

```
public class Test {
    public static void main(String[] args) {
        System.out.println(1 + 2 + 3 + 4 + "Hello");
     }
}
```

A - 10Hello

B - 64Hello

C - 10 Hello

D - 1234Hello

Using Operators and Decision Constructs - 27

What will be the result of compiling and executing DivModTest class?

```
public class DivModTest {
     public static void main(String[] args) {
         System.out.println( 23 / 2.0 );
         System.out.println( 23 % 2.0 );
     }
}
```

A - 11.5 0.0

B - 11.0 1.0

C - 11.5 1.0

D - 11 1

Using Operators and Decision Constructs - 28

What will be the result of compiling and executing Test class?

```
public class Test {
     public static void main(String[] args) {
         int a = 7;
         boolean res = a++ == 7 && ++a == 9 || a++ == 9;
         System.out.println("a = " + a);
         System.out.println("res = " + res);
     }
}
```

A - a = 9 res = true

B - Compilation error

C - a = 10 res = true

D - a = 10 res = false

Using Operators and Decision Constructs - 29

What will be the result of compiling and executing Test class?

```
public class Test {
    public static void main(String[] args) {
        System.out.println(1 + 2 + 3 + 4 + "Hello");
     }
}
```

A - 10Hello

B - 64Hello

C - 10 Hello

D - 1234Hello

Using Operators and Decision Constructs - 30

What will be the result of compiling and executing Test class?

```
public class Test {
    public static void main(String[] args) {
        int val = 25;
        if(val++ < 26) {
            System.out.println(val++);
        }
    }
}
```

A - 25

B - 27

C - 26

D - Program executes successfully but nothing is printed on to the console

Using Operators and Decision Constructs - 31

Consider below code of Test.java file:

```
public class Test {
    public static void main(String [] args) {
        boolean flag1 = true;
        boolean flag2 = false;
        boolean flag3 = true;
        boolean flag4 = false;

        System.out.println(!flag1 == flag2 != flag3 == !flag4);
        //Line n1
        System.out.println(flag1 = flag2 != flag3 == !flag4); //Line
        n2
    }
}
```

What will be the result of compiling and executing Test class?

A - Line n2 causes compilation error

B - true false

C - false true

D - Line n1 causes compilation error

E - true true

F - false false

Using Operators and Decision Constructs - 32

Consider below code of Test.java file:

```
public class Test {
    public static void main(String [] args) {
        boolean flag = false;
        System.out.println((flag = true) | (flag = false) || (flag =
         true));
        System.out.println(flag);
    }
}
```

What will be the result of compiling and executing Test class?

A - true true

B - false false

C - true false

D - false true

E - Compilation error

Using Operators and Decision Constructs - 33

Consider below code of Test.java file:

```
public class Test {
    public static void main(String [] args) {
        int a = 3;
        int b = 5;
        int c = 7;
        int d = 9;
        boolean res = --a + --b < 1 && c++ + d++ > 1;
        System.out.printf("a = %d, b = %d, c = %d, d = %d, res =
        %b", a, b, c, d, res);
    }
}
```

What will be the result of compiling and executing Test class?

A - a = 2, b = 4, c = 8,d = 10, res = false

B - a = 3, b = 5, c = 8,d = 10, res = true

C - a = 2, b = 4, c = 7,d = 9, res = false

D - a = 3, b = 5, c = 8,d = 10, res = false

E - a = 2, b = 4, c = 8,d = 10, res = true

F - a = 2, b = 4, c = 7,d = 9, res = true

Using Operators and Decision Constructs - 34

Consider below code of Test.java file:

```
public class Test {
    public static void main(String[] args) {
        int score = 30; // Line n1
        char grade = 'F'; // Line n2
        if (50 <= score < 60) // Line n3
            grade = 'D';
        else if (60 <= score < 70) // Line n4
            grade = 'C';
        else if (70 <= score < 80) // Line n5
            grade = 'B';
        else if (score >= 80)
            grade = 'A';
        System.out.println(grade);
    }
}
```

What is the result of compiling and executing Test class?

A - F

B - D

C - B

D - A

E - C

F - Compilation error

Using Operators and Decision Constructs - 35

Consider below code snippet:

```
int i = 10;
System.out.println(i > 3 != false);
```

What is the result?

A - null

B - true

C - Compilation error

D - false

Using Operators and Decision Constructs - 36

Consider below code of Test.java file:

```
public class Test {
    public static void main(String [] args) {
        int num = 10;
        if(num++ == num++) {
            System.out.println("EQUAL " + num);
        } else {
            System.out.println("NOT EQUAL " + num);
        }
    }
}
```

What will be the result of compiling and executing Test class?

A - EQUAL 11

B - EQUAL 12

C - NOT EQUAL 12

D - NOT EQUAL 11

Using Operators and Decision Constructs - 37

Consider below code of Test.java file:

```
public class Test {
    public static void main(String [] args) {
        boolean status = true;
        System.out.println(status = false || status = true | status =
         false);
        System.out.println(status);
    }
}
```

What will be the result of compiling and executing Test class?

A - false false

B - true true

C - Compilation error

D - true false

E - true false

Using Operators and Decision Constructs - 38

Consider below code of Test.java file:

```
public class Test {
    public static void main(String[] args) {
        int x = 10; //Line n1
        if (false)
            System.out.println(x); //Line n2
        System.out.println("HELLO"); //Line n3
    }
}
```

What is the result of compiling and executing Test class?

A - Compilation error at Line n3

B - HELLO

C - Compilation error at Line n1

D - Compilation error at Line n2

E - 10 HELLO